

Soil Conservation Service

Spokane, Washington



# Washington Water Supply Outlook

January 1, 1987



#### Foreword

#### How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soll Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

#### For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Denver, CO 80211
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 97102
Idaho	304 North 8th Street, Room 345, Bolse, ID 83702
Montana	10 East Babcock, Room 443, Federal Bullding, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97208
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
WashIngton	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencles:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

# Washington Water Supply Outlook

and

Federal — State — Private Cooperative Snow Surveys

#### Issued by

Wilson Scaling Chief Soil Conservation Service Washington, D.C.

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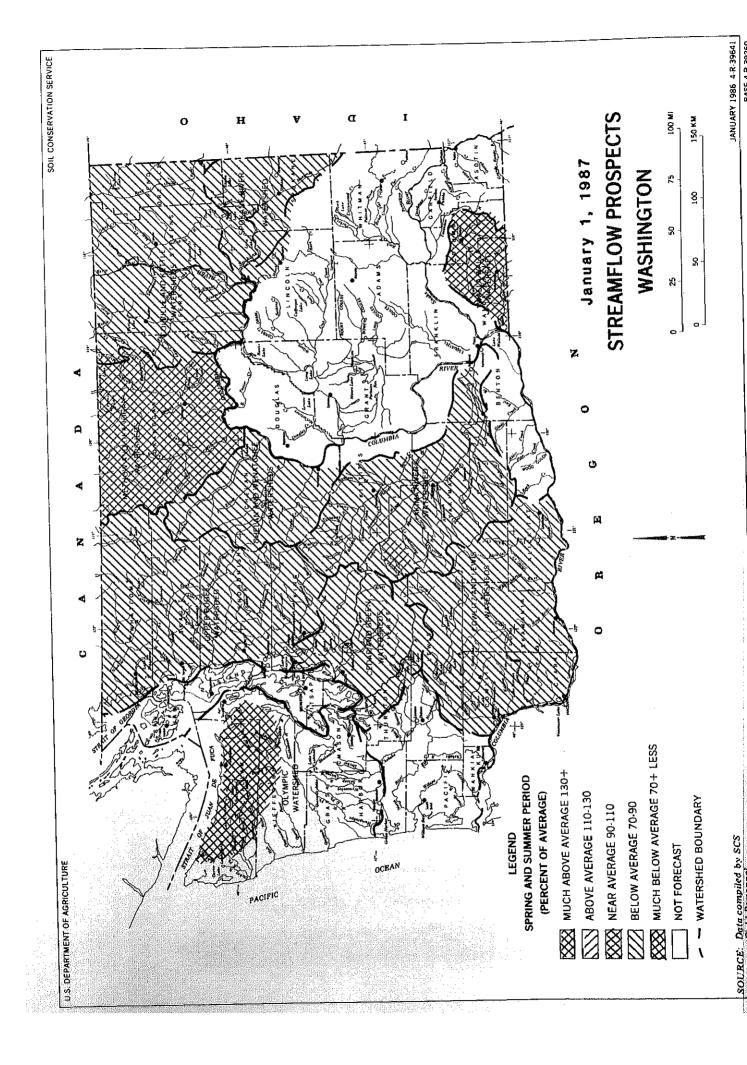
#### Prepared by

William F. Weller Water Supply Specialist Room 360 U.S. Courthouse Spokane, Washington 99201

All programs and services of the USDA are available to everyone without regard to race, creed, color, sex, age, handicap or national origin.

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#### GENERAL OUTLOOK

#### SUMMARY:

Washington water supply forecasts are for below normal runoff for 1987. Snow cover and Precipitation are below average continuing a trend set last year. Reservoir storage is below normal at the major irrigation projects throughout the state. Streamflows have been below the norm for late summer and fall months.

NOTE: Included in this years reports is the snow survey data.

#### SNOWPACK:

Very few manual snow measurements were scheduled and made for the January 1 period. Forecasters must rely on SNOTEL data for snowpack information. The January 1 statewide average is 73%. Storms during early January have made improvements to the snowpack. All Washington SNOTEL Sites are reporting snowpack, with Lyman Lake at 5900 feet in elevation having the largest with 27.1 inches of water content. The Columbia River Basin has a snowpack 63% of normal.

#### PRECIPITATION:

Precipitation values from SNOTEL sites indicate a water year value near 85% of average for the high mountain areas. Precipitation data from the National weather service sites, located mostly in lower valley areas, show values around the state vary from 35% in the Spokane Basin to 82% of normal for the Olympic Basin. Storms, the first week in January, have deposited over 5 inches at many sites along the Cascade Mountain range.

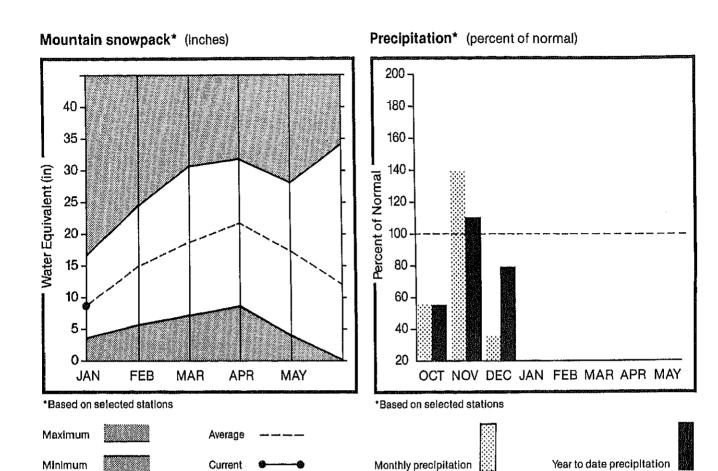
#### RESERVOIRS:

Reservoir storage is below average in Washington. Major irrigation reservoirs were drawn low the preceding summer when water supplies were also below normal. The Yakima Basin, which relies heavily upon stored water for irrigation, is at 58% of average. Columbia River reservoirs are near normal while storage in the Okanogan area is at 57% of capacity. Power reservoirs, such as Coeur d' Alene at 65% and Chelan Lake at 96% of normal, are suffering from low flows of last fall.

#### STREAMFLOW:

Streamflows are forecasted to be below normal for the coming spring and summer. Snowpack and water year to date precipitation values are below average over most of Washington. Forecasts vary from 72% in the Similkameen River to 93% in the Bumping River. December streamflows continued the summer and fall trend of below normal with only the Okanogan River at 101% being above average. Other December streamflows are; Spokane at Long Lake 76%, Pend Oreille River 75%, Columbia River at the International Boundary 86%, Chelan 65%, Snake 93%, Skagit 63%, and the Chehalis River 50%.

#### **SPOKANE**



#### SPOKANE RIVER BASIN

# WATER SUPPLY OUTLOOK:

Spokane River's forecasted spring and summer runoff is 88% of normal. This forecast is based upon a snowpack that is 89% of average and a water year to date precipitation value of 79% of normal. Data for snow cover was obtained from SNOTEL sites with no manual measurements made for the January 1 period. December streamflow in the Spokane River was 76% of normal. Storage in Coeur d' Alene Lake was 134,200 acre feet compared to 184,200 last year, average storage in Cd'A for January 1 is 207,700 ac. ft.

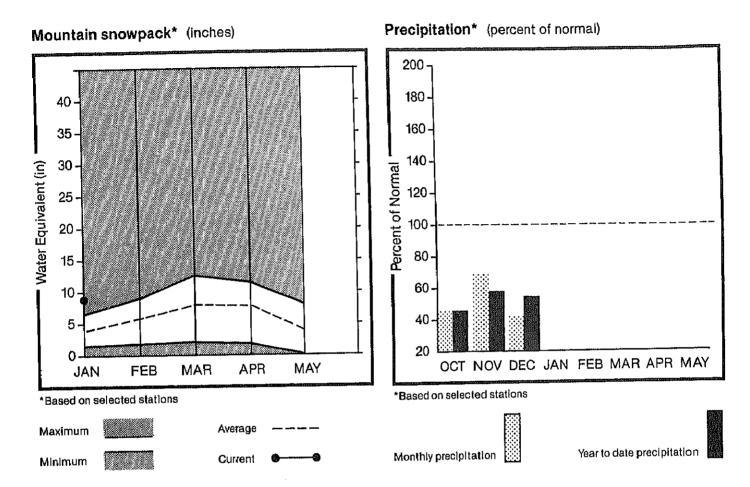
For more information contact your local Soil Conservation Service office.

FORECAST	FCST FERIOD	25YR AVG KAF	IMOST MOSTIRMX IPROB PROBI IKAF ZAVGIKAF	RMXIRMN Z I AUGIKAF	RMN % AVG
SPOKANE at Post Falls	APR-SEP APR-JUL		2480 87. 3932 2400 87. 3805	138 1028 138 995	36. 36.

 <sup>1 -</sup> Reas. max. and reas. min. forecasts are for 5% and 95%
 exceedance levels and also (2) below.
 2 - Corrected for upstream diversions or changes in reservoir storage.
 The average is computed for the 1961-85 base period.

	RESERVOIR		(100	·		
RESERVO	IR		USABLE CAPACITY	## USA THIS YEAR	LAST	
COEUR D'ALE				134.2	91.7	205.4
	¥	IATERSHED S	HOHPACK ANALY	'SIS		
WATERSHE	(D	COURS	THIS YEA D LAST YR		- E	NA MINE BOOK THAT GARD SAME SAME
Spokane Riv	/er	13	121	84		a tot lot 07 74 15 17

### COLVILLE AND PEND OREILLE



### COLVILLE - PEND OREILLE RIVER BASINS

#### WATER SUPPLY

**OUTLOOK:** 

Forecasted streamflows for the Pend Oreille River is 84%, Kettle River 84% and the Colville River 82% of normal for the spring and summer runoff period. Streamflows for December were 75% of average on the Pend Oreille River, 72% on the Kettle River and 86% on the Columbia River at the international Boundary. Snowpack measurements in the Pend Oreille Basin are at 89% of normal based mainly on SNOTEL measurements. Manual measurements of snow will begin February 1. Precipitation during December was 41% of average and water year to date values are 54% of normal.

For more information contact your local Soil Conservation Service office.

	FCST	25YR	I TROMI	10ST 1	RMX	RMXI	RMN	RMN
FORECAST		AVG	IPROB F	PROBL		% 1		%
<b>————</b>	PERIOD	KAF	IKAF :	KAVG I	KAF	AVG I	KAF	AVG
			- 7	2020 2000 2000 2000 2000 2000 2000 200				
			10000000					
PEND OREILLE RIVER bl Box Canyon	APR-SEP	15425	13000	84.	17011	110	8990	58.
,	APR-JUL			85.	15681	111	8319	59.
	AFR-JUN			82.	13179	108	6821	56.
		<b></b>	172 98 30 3	O especia				
COLVILLE RIVER at Kettle Falls	APR-SEP	134	110	R7.	177	132	43	32.
COPATURE KTACK OF MERCIE 19112	APR-JUL		100			132		32.
	APR-JUN		90	76	147	129		29.
	HLK-OOK	114	14 Y	(100.6)	• ''	12,		
vertie biller on Loupien	APR-SEP	1829	1540	ga.	2363	129	717	39.
KETTLE RIVER or Laurier	APR-JUL		1460		2242			37.
	APR-JUN		1260		1971		549	35.
	HI K-JUN	Thor	1200		1,,,	2 4	<b>.</b>	
	ADD OFF	44/75	00000	DΛ	50113	112	30497	48.
COLUMBIA RIVER at Birchbank 2	APR-SEP		\$60000000000000000000000000000000000000	7 Y '	40055	117	74745	48.
	APR-JUL		32200	701	29226	117	17770	48.
	APR-JUN	26027	43300	704	27220	114	1///4	001
				21820	70105	400	45.605	45.
COLUMBIA RIVER at Grand Coulee 2	APR-SEF			87.	73105	107	43073	00.
	APR-JUL		48900	⊌ 47.∗	61257	109	30343	02:
	APR-JU1	1 44036	,  38300	87,	47988	109	28612	02:
					~			

<sup>1 -</sup> Reas, max, and reas, min, forecasts are for 5% and 95%

#### RESERVOIR STORAGE

#### (1000AF)

		×× USA	BLE STOR	AGE **
RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	AVE
44 ml to the matter that the total had me may be the total me me me me me to the me me who me total me me total				
ROOSEVELT BANKS	5232.0 715.0	4617.5 656.1	3293.0 391.0 	4547.9 618.3 

WATERSHED	NO. COURSES AVE.D
***************************************	
Colville River Pend Oreille River Kettle River Omac Lake, Twin Lakes Newman Lake	0 9 2 0 1
2 (2) (2) (2) (3)	

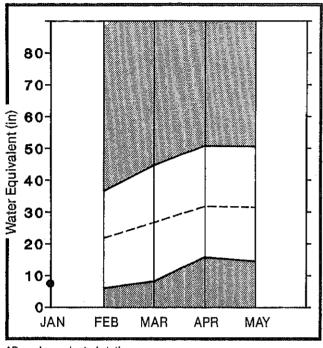
exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

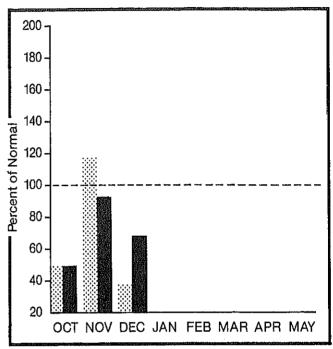
The average is computed for the 1961-85 base period.

#### OKANOGAN AND METHOW





#### Precipitation\* (percent of normal)







\*Based on selected stations



Year to date precipitation

#### OKANOGAN - METHOW RIVER BASINS

# WATER SUPPLY OUTLOOK:

Streamflow in the Okanogan River was at 101% of average for December. Forecasts for spring and summer on the Okanogan River are for runoff of 91% of normal and 90% on the Methow River. Snow cover as of January 1 is at 74%, based upon SNOTEL data. Manual snow surveys are scheduled for February 1. Precipitation in December was at 38% with water year to date 68% of average. Storage in the Conconully Reservoirs is at 13,400 acre feet which is 57% of capacity.

For more information contact your local Soil Conservation Service office:

FORECAST	FCST	25YR AVG	IMOST MOSTIRMX IPROB PROBI	RMXIRMN % I	RMN %
runechai	FERIOD	KAF	IKAF ZAVGIKAF	AVGIKAF	AVG
ه سه من المن المن المن المن المن المن المن ا	** 140* 144, 444 244 444 444 444 444 444				
SIMILKAMEEN R. or Nighthawk	APR-SEP	1462	1390 95, 2443	167 337	23.
September 1981 Comments 198 111 15 mm Comments	APR-JUL	1365	1300 95. 2283	167 317	23.
	APR-JUN	1161	1100 95. 1936	167 264	23.
OKANOGAN R. mr Tomasket	APR-SEP	1644	1500 91, 2700	164 300	18.
	APR-JUL	1497	1360 91, 2453	164 267	18.
	APR-JUN	1262	1150 91, 2071	164 229	18.
	APR-SEP	980	880 90, 1213	124 547	56.
METHOW RIVER or Pateros			820 90, 1129	124 511	56,
	APR-JUL		\$64.00.000.000.000.000.000.000.0000.0000	125 437	57
	APR-JUN	//3	700 91, 963	120 407	٠,١

<sup>1 -</sup> Reas. max. and reas. min. forecasts are for 5% and 95%

#### RESERVOIR STORAGE

#### (1000AF)

		www.USA	BLE STOR	AGE XX
RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	AVE.
Data dans have your time hand had your tree your have your hand don't you, your your your hand don't you you have hand died and many week hand you				
CONCONULLY LAKE (SALMON) CONCONULLY RESERVOIR	10.5 13.0	9.0 5.0	8.0 5.4	7.5 5.9

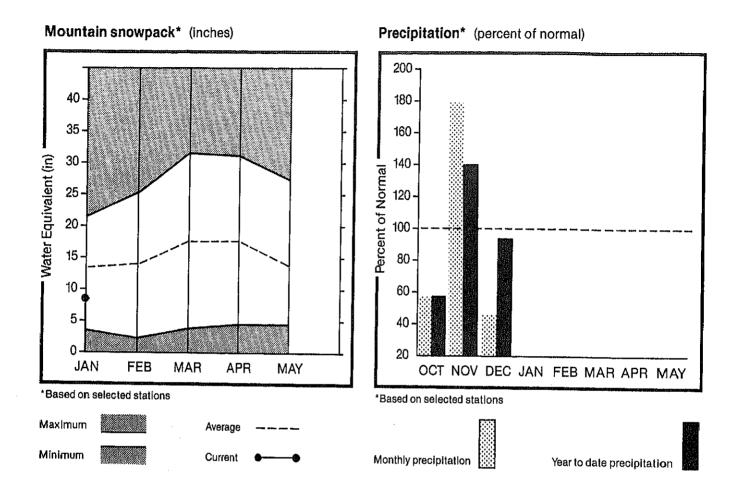
WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
med had joer own bury 1000 axes later over year jond only and only harry bury one med date now days yes such this w		
Okanogan River Methow River	17 2	102 78 116 63

exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

#### WENATCHEE AND CHELAN



### WENATCHEE - CHELAN RIVER BASINS

# WATER SUPPLY OUTLOOK:

Snowpack in the Wenatchee-Chelan Basin is at 86% of normal. Streamflows for December were 65% of average for the Chelan River and 70% on the Wenatchee River. Runoff for spring and summer is forecasted to be 90% of normal in the Wenatchee and 83% in the Chelan Basin. Stehekin River runoff is forecasted to be 85% of average. Precipitation during December was 46% in the Wenatchee and 46% in Chelan, Reservoir storage in Lake Chelan is at 365,000 acre feet or 96% of normal for January 1.

For more information contact your local Soil Conservation Service office:

FORECAST	FCST	25YR AVG			RMX		RMN	RMN Z
	PERIOD		IKAF	%AVG	KAF	AVGI	KAF	AVG
, one can bee one has been any one gay, and then one date has not seen and pad been been found that has not can one one new to							·	- <b></b>
HELAN RIVER at Chelan 1	APR-SEP	1203	1000	83.	1349		651	54,
	APR≁JUL	1055	880	83.	1186	112		54,
	APR-JUN	826	660	80,	900	109	420	51.
TEHEKIN R. at Stehekin	APR-SEP	860	730	85,	945	110	515	60.
	APR-JUL	727	620	85.	802	110	438	60.
	APR-JUN	553	470	85.	808	110	332	60.
NTIAT RIVER or Ardenvoir	APR-SEP	235	175	75.	234	100	116	49.
	APR-JUL		1.60		213	100	107	50.
	APR-JUN	172	130	76,	173	101	87	51
ENATCHEE RIVER at Flain	APR-SEP	1270	1140	90.	1597	126	683	54
edititi tottinen itte Arciit circ i arabati	APR-JUL		1000		1401	126	599	54
	APR-JUN	899	800	В9.	1124	125	476	53
TEMILT or Wenatchee (miners in)	MAY-SEP	138	110	во.	160	116	60	43
CICLE CREEK or Leavenworth	APR-SEP	370	330	89.	463	125	197	53
	APR-JUL		300		422	124	178	52
	APR-JUN		240		337	125	143	53
OLUMBIA R. bl Rock Island Dam 2	APR-SEP	72781	6430	0 88.	81767	112	46833	64
recommendation constitution to the property of the contraction of the property of	APR-JUL	61601	5420	0.88	68984	112	39416	64
	APR-JUN		4260	0 BB.	54212	112	30988	64

<sup>1 -</sup> Reas. max. and reas. min. forecasts are for 5% and 95%

#### RESERVOIR STORAGE (1000AF)

		TARIL WW	BLE STOR	AGF XX
RESERVOIR	USABLE Capacity	THIS YEAR	LAST YEAR	AVE .
معه جمع جون جون البدل المد عدد عدد المدا المد عدد عدد المدا المدا عدد المدا المدا عدد المدا المد				
CHELAN LAKE	676.1	365.0	365.7	378.7

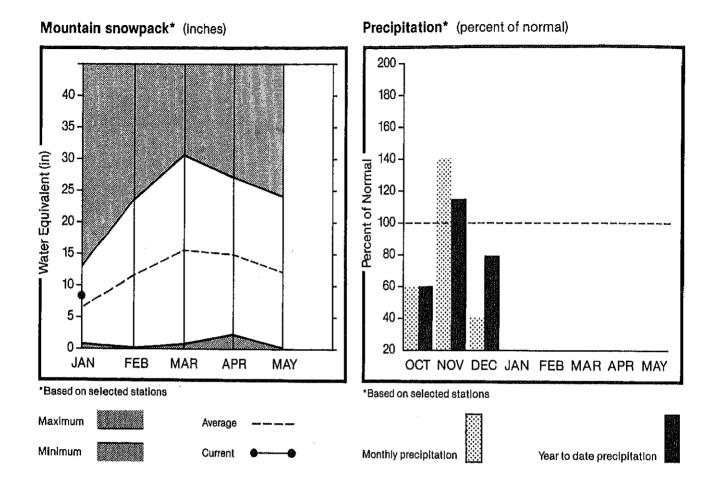
WATERSHED	COURSES AVE.D	LAST YR. AVERAGE	
Chelan Lake Basin Entiat River Wenatchee River Colockum Creek Squilchuck Creek Stemilt Creek	6 1	143 97	

exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

#### YAKIMA



### YAKIMA RIVER BASIN

# WATER SUPPLY OUTLOOK:

Reservoir storage continues low, with January 1 values for the five major reservoirs at 337,900 acre feet or 58% of normal. December streamflow was not available due to icing of the stream gage. Forecasts for the Yakima Basin runoff are 84% of normal, and for the Yakima River at Cle Elum 84%, Naches River 85%, the Yakima River at Parker 84% and Ahtanum Creek 83%. Snowpack is 84% of average in the Yakima basin. Precipitation for December was 40% of normal and 79% for the water year to date,

For more information contact your local Small Conservation Service office.

FORGOACT	FCST	25YR	TROMI	HOST	RMX	RMXI	RMN	RHN Y
FORECAST	PERIOD	KAF	IKAF	%AVG	KAF	AÛGÎ	KAF	ΑŰC
			A PAGE AND A	2 X 30 X (3				
AKIMA RIVER at Martin 1	APR-SEP	139	120	96,	158 136 114	114	82	59
	APR-JUL APR-JUN	128	110	Bé,	136	106	84	200
			100000000000000000000000000000000000000	35 N. S.				
AKIMA RIVER at Cle Elum 2	APR-SEP	943	790	84,	941	100	639	48
	APR-JUL	854	710	93.	B47	99.	573	67
AKIMA RIVER or Parker 2	APR-SEP	2096	1760	84.	2326	111	1194	57
	APR-JUL	1898						
	APR-JUN	1667	1400	84.	1850	111		
ACHESS RIVER or Easton 1	APR-SEP	121	100	83.	139 132	115	61	50
ACHESS RIVER or Easton 1	APR-JUL	115	95	83.	132	115	58	50
	APR-JIIN	101						
TE CLUM STUFS on Roslun 1	APR-SEP	463	410	89.	516	111	304	66
The Later Harrier His Harry H.	APR-JUL	422	370	* 88	450	107	290	69
CLE ELUM RIVER or Roslyn 1	APR-JUN	353	300	85,	367	104	233	66
SUMPING RIVER for Nile 1	APR-SEP	142	190	192.	171	120	89	63
, (), 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	APR-JUL APR-JUN	129	120	93.	157	122	83	64
	APR-JUN	107	98	92,	171 157 129	121	67	6.
AMERICAN RIVER or Nile	APR-SEP	124	110	89.	147 134	119	73	59
MEKICHK KIVEK III WAIE	APR-JUL	113	100	80.	134	119	66	59
	AFR-JUN		ВЭ.	::88.	147 134 111	118	55	5
TIETON RIVER at Tieton 1	ΔPΩ-SEP	244	200	A1	249	101	151	6
TEINH KIACK SC LIESDIL I	APR-SEP APR-JUL	207	120	821	211	102	129	6
	APR-JUN		140	85.	111 249 211 173	105	107	6
NACHES RIVER or Naches 2	APR-SEF	867	740	85	1017 921 783	117	463	5
AMPLIED WIACK III. Maciles t	APR-SEF APR-JUL	794	670	88.	921	117	419	5
	APR-JUN	667	570	85 (	783	117	357	
AUTANUM PREEV on Tomoico 2	APR-SFE	47	39	83.	40 55 48	128	18.0	3
AHTANUM CREEK or Tampico 2	APR-JUL	43	36	84.	⊈55	128	17.0	4
	APR-JUI	1 37	31	84.	48	130	14.0	Э
	==-				1			

1 - Reas, max, and reas, min, forecasts are for 5% and 95% exceedance levels and also (2) below, 2 - Corrected for upstream diversions or changes in reservoir storage, The average is computed for the 1961-85 base period,

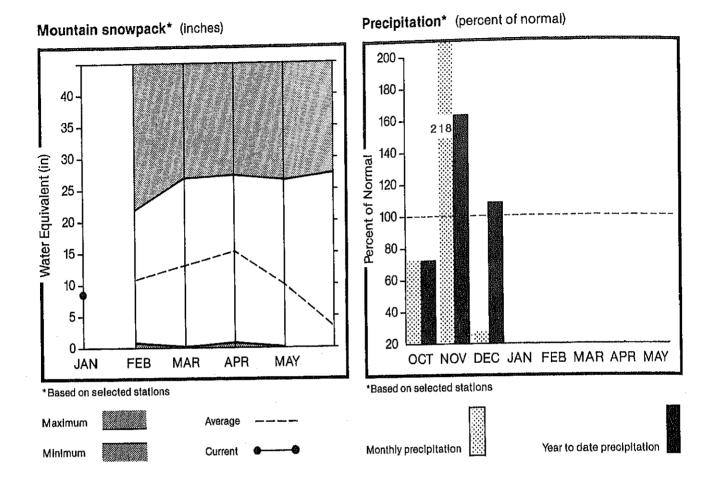
#### RESERVOIR STORAGE

#### (1000AF)

			BLE STOR	AGE XX
RESERVOIR	USABLE CAPACITY	THIS Year	LAST Year	AVE.
KEECHELUS KACHESS	157.8 239.0	64.2 55.5	59.2 98.1	83.0 159.1
CLE ELEM BUMPING LAKE	436.9 33.7	102.2	118.5	230,2 6,3
RIHROCK	198.0	103.0	110.0	

•		
WATERSHED	NO, COURSES AVE,D	THIS YEAR AS % OF
Yakima River Ahtanum Creek	14 2	(10 93 (10 48 462)
		<del></del>

### WALLA WALLA



WALLA WALLA RIVER BASIN

WATER SUPPLY OUTLOOK:

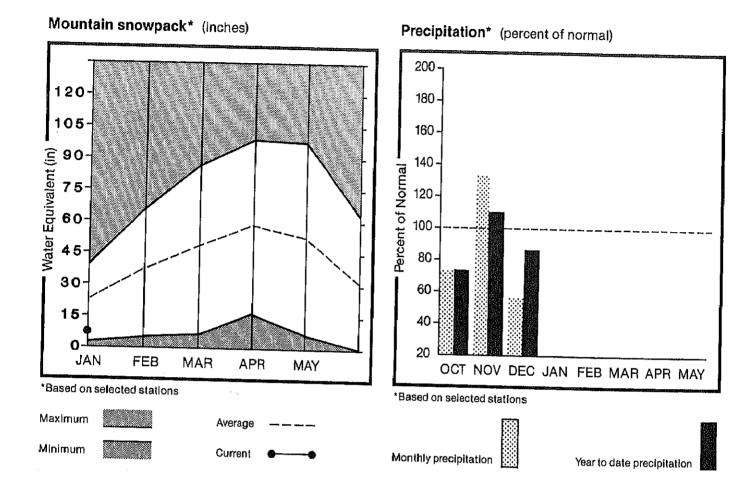
Snowpack in the Walla Walla River basin is 84% of normal. Precipitation for December was 28% of average and the water year to date precipitation has been 109% of normal. Forecasted streamflow in the Walla Walla Basin is 91% of average. Streamflow for December in the Walla Walla River was 49% of normal.

FORECAST	,		MOSTIF PROBI %AVGII	7.		RMN % AVG
MILL CREEK at Walla Walla	APR-SEP 1 1 JUL-RYA 1 JUN 1	17.3 15.7	NY 000000 2000000 00000000	22 127	10.0 10.0 10.0	57. 58. 58.
COLUMBIA R. at The Dalles 2	APR-SEP : APR-JUL : APR-JUN :	36500 <b>7180</b>	ກ 83. "	110260109 94290 109 76426 109	49310	57.

	, ои	THIS YEAR AS % OF
WATERSHED	COURSES	,
	AVE.D	LAST YR. AVERAGE
Mill Creek	1	161 84

<sup>1 -</sup> Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

### **COWLITZ AND LEWIS**



### COWLITZ - LEWIS RIVER BASINS

# WATER SUPPLY OUTLOOK: ...

Snow cover for the Cowlitz-Lewis Basin is at 77% of normal. This compares to last years 63% at this time. Maximum water content was noted at the Paradise SNOTEL site where the snow pack contained 23.7 inches of water on January 1. Streamflow is forecasted to be near normal for the coming water year. Forecasts for the Lewis River is 88% and for the Cowlitz River 88%. Precipitation was 56% of normal for December. Water year to date precipitation has been 86% of average.

						ter est les 174 -177
FORECAST	FCST	25YR AVG	IMOST MOST		RMX LRMN % l	RMN %
	PERIOD	KAF	IKAF %AVG	KAF	AVG I KAF	AVG
منا بعد الله الله الله الله الله الله الله الل						
LEWIS RIVER at Ariel 2	APR-SEP	1249	1100 88.	1625	130 575	46.
	APR-JUL	1086	960 88.	1416	130 504	46.
	APR-JUN	961	850 88.	1254	130 446	46.
					400 070	
COWLITZ R. bl Mayfield Dam 2	APR-SEP	2038		2707	133 873	43.
	APR-JUL	1778		2360	133 760	43.
	APR-JUN	1502	1320 88.	1996	133 644	43.
COWLITZ R. at Castle Rock 2	APR-SEP	2473	2350 884	3018	113 1682	63.
COMCTIZ K! SC CSSCIE NOCK Z	APR-JUL		\$200 \$700 \$700 \$100 \$100 \$100 \$100 \$100 \$1	2681	115 1519	
	APR-JUN		200000000000000000000000000000000000000	2245	113 1255	
	FAL IVOUM	1700	4,00 00,		1 L L L L L L L L L L L L L L L L L L L	501
			0	£		

<sup>1 -</sup> Reas. max. and reas. min. forecasts are for 5% and 95%

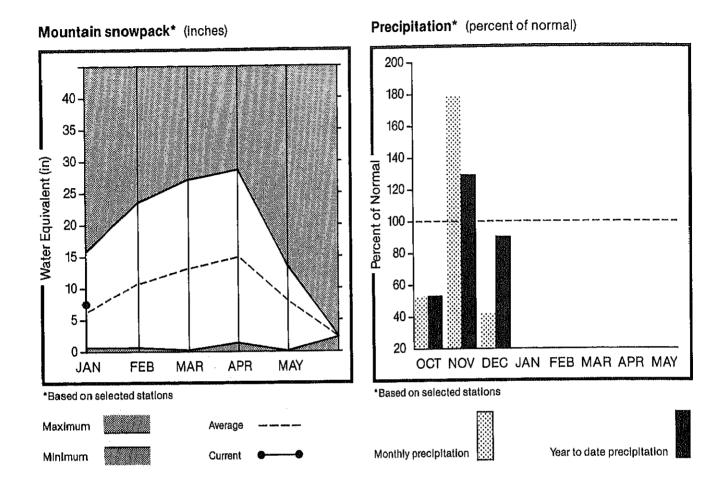
WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
Cowlitz River Lewis River	1 4	93 68 .92 78

exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

### WHITE - GREEN



WHITE - GREEN RIVER BASINS

# WATER SUPPLY OUTLOOK:

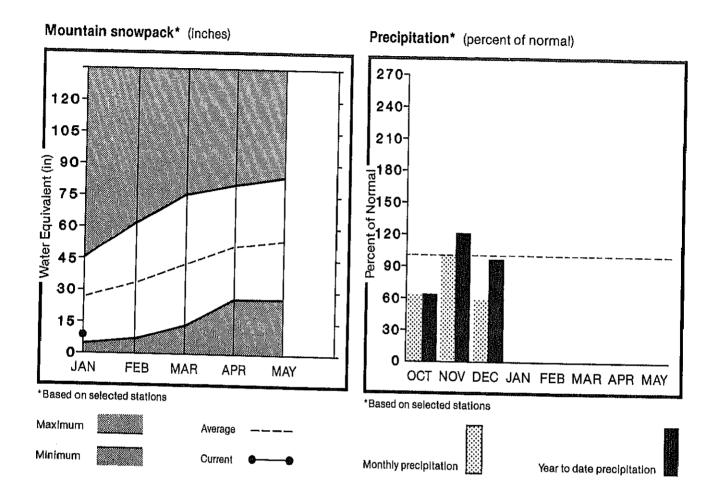
Summer runoff is forecasted to be 82% of normal on the Green River and 86% on the Cedar River. Water content at the Stampede Pass SNOTEL site showed 21.1 inches of water content on January 1. December runoff was near 60% of average. Precipitation was 41% of normal for December, bringing the water year to date to 91% of average. Snowpack is 74% of normal for the basin.

FORECAST	FCST PERIOD	25YR AVG KAF	IMOST MOSTIRMX IPROB PROBI IKAF ZAVGIKAF	RMX IRMN % I AVG IKAF	RMN % AVG
GREEN RIVER bl Howard Hanson Dam 2	APR-SEF APR-JUL APR-JUN	284	280 82, 371 240 85, 339 210 82, 300	117 149 119 141 117 120	47. 50. 47.
CEDAR RIVER or Cedar Falls	APR-SEP	93	80 86, 113	122 47	51.

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
White River Green River	2 7	150 116 122

<sup>1 -</sup> Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

### NORTH PUGET SOUND



### NORTH PUGET SOUND RIVER BASINS

# WATER SUPPLY OUTLOOK:

Snow cover for the North Puget Basin is 71% of normal, with the Harts Pass SNOTEL site having 19.1 inches of water content as of January 1. Precipitation values for December were 58% of average, with a water year to date at 95%. Forecasted runoff for the Skagit River is 94% of normal. Reservoir storage is below average with Ross storing 1,178,700 acre feet as of January 1, compared to last years 1,206,000 acre feet.

for more information contact your local Soil Conservation Service ordice

FORECAST	FCST	25YR Aug	IMOST MOSTIRMX	RMXIRMN Z I	RMN %
· oncomo	PERIOD	KAF	IKAF %AVGIKAF	AVGIKAF	AVG
ern ern ber den gen man som man man som som som den som man kan man som som ern der ber ber bre man van van den bre				·	
SKAGIT RIVER at Newhalem 2	APR-SEP		2210 94, 2823 1850 94, 2363	120 1597 120 1337	68. 68.
	APR-JUL APR-JUN		1400 94, 2363	120 1337	68,

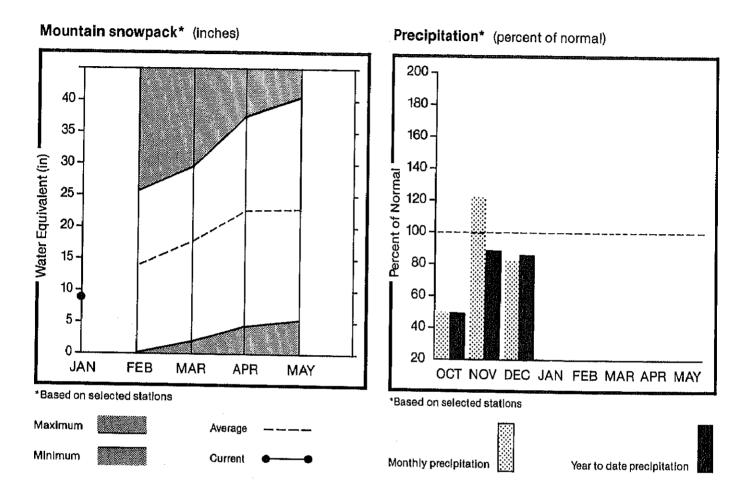
#### RESERVOIR STORAGE (1000AF)

			LE STOR	AGE **
RESERVOIR	USABLE	THIS	LAST	
	CAPACITY	YEAR	YEAR	AVE .
ROSS	1404.1	1178.7		783.9
DIABLO RESERVOIR	90.6	84.6		
GORGE RESERVOIR	9.8	8.0	7.6	

WATERSHED	NO, COURSES	THIS YEAR AS % OF
MATERONED	AVE 1D	LAST YR. AVERAGE
dag man and mad from have love five from book food book dood book dood food food book book book book book		
Skagit River	3	191 78
Baker River	Ō	0 0
Cedar River	0	0
Snoqualmie River	0	0 0
Skykomish River	2	126 88

<sup>1 -</sup> Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

### **OLYMPIC**



### OLYMPIC PENINSULA RIVER BASINS

# WATER SUPPLY OUTLOOK:

December precipitation was 82% of normal. The water year to date accumulation is 86% of average. Snow cover is estimated to be 90% of normal based upon snow pillow data from Carrol Pass on the Wynoochee River. Area streamflow was below normal during December. Forecasts of runoff for the Dungeness River is 90% of average and on the Elwha River 90%.

CORCACT	FCST	25YR AVG	IMOST MOSTIRMX	RMXIRMN % I	RMN %
FORECAST	<b>PERIOD</b>	KAF	IKAF ZAVGIKAF	AVGIKAF	AVG
DUNGENESS RIVER or Sequim	APR-SEP	160	144 90. 176	110 112	70.
	APR-JUL	130	117 90, 143	110 91	70.
	AFR-JUN	97	97 90, 106	109 68	70 +
ELWHA RIVER or Port Angeles	APR-SEP	553	500 90, 611	110 389	70.
many title (the point of the po	AFR-JUL	454	410 90, 501	110 319	70.

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
Dungeness River Morse Creek Elwha River	0 0 0	0 0 0 0 0

<sup>1 -</sup> Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

DATA CURRENT AS OF: 1/9/87 11:58:48

BASIN SUMMARY OF SHOW COURSE DATA

FEND REFLICE FIVES  FEND REFLICE FIVES  FEND REFLICE FIVES  FEND REFLOW 1270 12730760 26 1.2 2.2 3.0 TROUGH 12 FILLON 5310 1/01/87 3.5E 7.9 ENTROUGH 12 FILLON 5310 1/07/86 14 2.6 6.4 ENTROUGH 12 FILLON 5310 1/07/87 12.95 16 ENTROUGH 12 FILLON 5310 1/07/8		2008	JANUARY		BIR										
PROPRIETE FILE   PROPRIETE	SMON COURSE	ELEVATION	DATE	SHOW			AVERAGE								
FERD REFLICE FLUES  SETTION FOR 17 19 19 19 19 19 19 19 19 19 19 19 19 19				DEFTH	CONTENT										
## SET ON #5000M 2270 12730764 6 1.2 2.2 2.0 16000M 22 FILLOW 5310 1/01/87 3.5E 7.9 ## SET ON #5000M 22 FILLOW 5310 1/01/87 3.5E 7.9 ## SET ON #5000M 22 FILLOW 5310 1/01/87 3.5E 7.9 ## SET ON #5000 1/0								COLOCKIIN CREEK							
REFUS SPRING  470 17/30/86 24 5.4 5.1 6.6  100000 FASIRIL  10000 FASIRIL  100000 FASIRIL  1000		2370	12/30/86	6	1,2	2.2	3.0		FILLOS	5310	1/01/87		3.5F	7.9	5,1
MINDSON CREEK					6.4			SOUILCHUCK CREEK			<b>-</b> -		2.02	,	5,12
MODOOD CREEK	HEART LAKE TRAIL				6.7	6.9									
LOGGOST   A.   \$140   \$1/93/87   \$5   \$13.4   \$10.5   \$14.5   \$14.5   \$14.5   \$1.5   \$14.5   \$1.5	HDUBBU PASIN						21.5								
NELSON CAN. 3100 1/07/87 35 8.2 4.4 7.2 SELENTI PASSETILLON 4270 1/01/87 5.98 97.1 SELENTITE ROUL 4800 12/27/86 33 10.4 6.8 13.6 EMPTHIC LAKE (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 27 4.0 5.8 7.1 SELENTITE ROUL ARC (MEN) 3450 12/27/86 37 5.1 SELENTITE ROUL ARC (ME													2.6	6.4	3.6
SCHMEITER BOOL														5.7	7.2
COUNTLE STORY  SETTLE AT THE LAKE S  FOR THE STORY  SETTLE									2FILLOV						11.5
COLVELLE RIVER  FITTER FAUNT  CAN. 5510 12/20/86 31 5.7 7.3 7.2 CORRAN, PASS FILLON \$000 1/01/87 22.5C 13.7 FISH LARK FILLON \$000 1/01/87 12.99 8.6															6.5
## HETTLE RIVER  ## BEG WHITE RIN CAN. 5510 12/30/88. 31 5.9 7.3 7.2 FEBS LAKE FILLOW 3370 1/01/87 12.55 8.5 6.5 MAY THE LAKES FILLOW 4000 12/30/88. 22 3.5 5.6 9.9 GROWLAND TUTH LAKES FILLOW 4000 12/30/88. 22 3.5 5.6 9.9 GROWLAND TUTH LAKES FILLOW 4000 1/01/87 4.55 8.5 MAY THE LAKES FILLOW 4000 1/01/87 11.75 11.7 MAY THE LAKES FILLOW 4000 1/01/87 15.05 8.4 MAY THE LAKES FILLOW 4000 1/		2200	12727700	36	17.7	15./	21.3								8.0
SET SHITE NAME CAN. 5510 12/30/86 21 5.9 7.3 7.2 GREEN LAKE FILLUM 6000 1/01/87 3.05 6.8 8.4 8 8.5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8															15.5
FARCH CAN. 4000 12/30/86, 22 3.5 5.6 7.7 CROWLE CAMP FILLING 5380 1/01/87 21:15 15.3 3 970 AMEL LARE. TUTH LAKES 970 AMEL LARE. TUTH LAKES 970 AMEL CARE. TUTH 18/5 10.1 13.7 AMEL CARE. TUTH 18/5 10.1 12/31/86 45 20.2 17.2 25.2 AMEL CARE. TUTH 400 1/01/87 7.15 7.6 AMEL CARE. TUTH 400 1/01/87 10.3 5 4.4 AMEL CARE. TUTH 400 AMEL CARE. TUTH	ETG WHITE HTH CAN	N. 5510	12/30/84	31	5.0	7.3	7.2								15,1
UNAN LAME: THIN LAKES  PROMARE THE ALKE: SPICAL SAME SAME SAME SAME SAME SAME SAME SAME		4000													8.7
SPORME ETUER  AEOVE LUKEE  AEOV				•											9.0
ABOVE DURKE 4100 1/05/87 34 8.0 5.6 8.4 SASSE RIDGE PILLON 4200 1/01/87 7.15 7.6 MISSUITO RIDGE 4200 12/31/80 6.5 13.4 10.5 14.5 14.5 MISSUITO RIDGE 4200 12/31/80 6.5 20.2 17.2 15.2 MISSUITO RIDGE 4200 12/31/80 6.5 10.1 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14															22.0 23.6
LOUGHUITO TODG					8.0	5.6	8.4								15.4
MASGULTA RIDGE 510 17/31/86 65 20.2 17.2 25.2 AHTANUA CREEK SUBSET 10.1 17/31/86 65 20.2 17.2 25.2 AHTANUA CREEK SUBSET 10.1 17/31/86 65 20.2 17.2 25.2 AHTANUA CREEK SUBSET 10.1 17/31/87 1.2 15.4 17.2 AHTANUA CREEK SUBSET 10.1 17/31/88 1.3 AHTANUA CREEK SUBSET 10.1 AHTANUA CREEK SUB					13.6			WHITE PASS ES							10.4
SHERHIN 3200 1/02/87 19 3.7 3.9 5.4 SHERN LAKE PILLON 4000 1/01/87 5.09 6.0 No. 10 SHERN LAKE SUMBERT 5540 1/01/87 12.1E 14.7 SHILLERER PILLON 4980 1/01/87 5.09 6.0 No. 10 SHERN LAKE SHERN LAKE PILLON 4980 1/01/87 7.1S 7.6 SHERN LAKE SHERN LAKE PILLON 4980 1/01/87 7.1S 7.6 SHERN LAKE SHERN LAKE PILLON 4980 1/01/87 7.1S 7.6 SHORK LAKE PILLON 4980 1/01/87 7.1S 15.7 SHORK LAKE PILLON 4980 1/01/87 7.1S 7.6 SHORK LAKE PILLON 4980 1/01/87 7.1S 7.6 SHORK LAKE PILLON 4980 1/01/87 7.1S 4.7 SHORK LAKE PILLON 49	LUBI LAKE				20.2									.,,	****
SHIPSET											12/29/84	14	2.6	6.4	3.6
NEMBRI LAKE RAGGE RIDGE RAGGE									PILLON	6000	1/01/87				6.7
RAGGED RIDGE SHOW COURSE    CLEVATION   DATE   SHOW HATER   LAST AVERAGE   LEWIS AND COURSE   LAST AVERAGE   LEWIS AND COURSE   LAST AVERAGE   LEWIS AND COURSE   LEW		2270	1/01/0/		12:16		14,7								
SHOW COURSE    SHOW HATER   LAST   VERRACE   HATTE PASS CS FILLON   4500   1/01/87 7,15   7.6		3330	12/30/84	13	2.4	۸ ۵	2.0				1/01/87		10.35	6.4	12.2
DEPTH CONTENT YEAR 1961-05  SHOW COURSE  ELEVATION OF SHOW WITER  BLACKMALL PEAK CAH, 6370 12/30/84 54 17.0 11.6 14.8 WHITE KIVER  BLACKMALL PEAK CAH, 6370 12/30/84 54 17.0 11.6 14.8 WHITE KIVER  BLACKMALL PEAK CAH, 6370 12/30/84 54 17.0 11.6 14.8 WHITE KIVER  BLACKMALL PEAK CAH, 6370 12/30/84 54 17.0 11.6 14.8 WHITE KIVER  BLACKMALL PEAK CAH, 6370 12/30/84 54 17.0 11.6 14.8 WHITE KIVER  BLACKMALL PEAK CAH, 6370 12/30/84 54 17.0 11.6 14.8 WHITE KIVER  BLACKMALL PEAK CAH, 6370 12/30/84 54 17.0 11.6 14.8 WHITE KIVER  CREENBACK KES CAH, 5120 12/30/84 17 17.5 19.7 18.6 GREEN KIVER  GREENBACK KES CAH, 5120 12/30/84 17 17.5 19.7 18.6 GREEN KIVER  HARAILION HILL CAM, 4890 12/30/84 17 3.1 GREEN KIVER  HARAILION HILL CAM, 4890 12/30/84 10 2.4 3.4 3.1 GREEN KIVER  HARAILION HALL CAM, 4800 12/30/84 10 2.4 3.4 3.1 GREEN KIVER  HARAILION LAKE CAM, 5300 12/30/84 17 3.8 3.5 4.7 GRASS HOUNTAIN \$2 2700 1/05/87 30 4.5 7.2 GRASS HOUNTAIN \$2 10.0 1/05/87 30 4.		ELEVATION	DATE												
DRANDDAN RIVER  BLACKMALL FEAK CAN. 6370 12/30/86 54 17.0 11.6 14.8 MHITE RIVER  BRENDA BINE CAN. 4800 12/27/86 23 5.2 4.2 6.5  BRODINGKE CAN. 3200 1/01/87 22 5.7 .9 4.6  BRODINGKE LAKE FILLON 5000 1/01/87 21.1S 15.3  BRODINGKE LAKE FILLON 5000 1/01/87 21.1S 15.3  COMBAR HTN. FILLON 3000 1/01/87 2.0 3.6 .7  BRODINGKE LAKE CAN. 3200 1/01/87 2.0 3.6  BRODINGKE CAN. 3								AUTIC LHOSE							10.4
BLACKWALL PEAK CAH. 4370   12/30/86   54   17.0   11.6   14.8   MRITE RIVER   REBENDA MINE CAH. 4800   12/37/86   23   5.2   4.2   6.5   CORRAN HINE CAH. 4800   12/37/86   23   5.2   4.2   6.5   CORRAN HINE CAH. 4800   12/30/86   67   17.5   19.7   18.6   CREEN RIVER   CAH. 4200   12/30/86   67   17.5   19.7   18.6   CREEN RIVER   CAH. 4200   12/30/86   67   17.5   19.7   18.6   CREEN RIVER   CAH. 4200   12/30/86   67   17.5   19.7   18.6   CREEN RIVER   CAH. 4200   12/30/86   67   17.5   19.7   18.6   CARS MOUNTAIN #2   2900   1/01/87   21.19   15.3   CARS MOUNTAIN #2   2900   1/01/87   21.19   15.3   CARS MOUNTAIN #2   2900   1/05/87   30   4.5   7.2   CARS MOUNTAIN #2   2900   1/05/87   24   3.6   3.6   3.6   3.5   CHINI LAWE   4000   1/05/87   24   7.0   10.2   CARS MOUNTAIN #2   2900   1/05/87   24   7.0   10.2   CARS MOUNTAIN #2   29								andk Cookst		ELEVATION	DULE				AVERAGE
RECHARACTER THE CAM. 4800 1/2/39/84 54 17.0 11.4 14.8 WHITE RIVER  RECHARACTER CAM. 4800 1/2/39/84 23 5.2 4.2 6.5  RECHARACTER CAM. 3200 1/01/87 22 5.7 .9 4.4  RECHARACTER CAM. 3200 1/01/87 21.18 15.3  CORRAL PASS PILLON 5400 1/01/87 21.18 15.3  CREER RIVER  CREER RIVER  CREER RIVER  CREER RIVER  CREER RIVER  COUGAR HTH. FILLON 3200 1/01/87 21.18 15.3  CREER RIVER  COUGAR HTH. FILLON 3200 1/01/87 7.05 6.7  ISLANDING LAKE CAM. 500 1/2/39/84 10 2.4 3.4 3.1  LYMI LAKE 4000 1/05/87 30 4.5 7.7  LYMI LAKE 4000 1/05/87 24 7.0 10.2  LYMI LAKE 4000 1/05/87 24 7.0 10.2  RISSION CREEK CAM. 500 1/2/31/86 14 2.3 2.8 3.9 4.3  SALHON ROWS FILLON 500 1/2/39/86 13 2.8 3.9 4.3  SALHON ROWS FILLON 500 1/2/39/86 13 2.8 3.9 4.3  SALHON ROWS FILLON 600 1/2/38/8 38 10.5 13.2 13.4  SALHON ROWS FILLON 600 1/2/38/8 8 1.4 2.5 2.7  SALHON ROWS FILLON 600 1/2/38/8 8 1.4 2.5 2.7  SALHON ROWS FILLON 600 1/2/38/8 8 1.4 2.5 2.7  SALHON ROWS FILLON 600 1/2/38/8 8 1.4 2.5 2.7  SALHON ROWS FILLON 600 1/2/38/8 8 1.4 2.5 2.7  SALHON ROWS FILLON 600 1/2/38/8 8 1.4 2.5 2.7  SALHON ROWS FILLON 600 1/01/87 19.15 15.4 2.7  SHARTS PASS FILLON 600 1/01/87												DEFIN	CUNTERT		1961-85
REDDIARRE CAM. 3800 12/29/86 23 5.2 4.2 4.5 CORRAL PASS FILLON 6000 1/01/87 22.5E 13.7 REDDIARRE CAM. 3200 1/01/87 22 5.7 .9 4.6 MORSE LARKE FILLON 5400 1/01/87 21.1S 15.3 RECORDANCE CAM. 3200 1/03/98 67 17.5 19.7 18.6 GREEN FULL CAM. 4670 12/30/86 17 3.0 4.4 3.1 GREEN FULL CAM. 4670 12/30/86 17 3.0 4.4 3.1 GREEN FULL CAM. 4670 12/30/86 17 3.0 4.4 3.1 GREEN FULL CAM. 4670 12/30/86 17 3.0 4.4 3.1 GREEN FULL CAM. 4670 12/30/86 17 3.0 4.4 3.1 GREEN FULL CAM. 4670 12/30/86 17 3.0 4.4 3.1 GREEN FULL CAM. 4670 12/30/86 14 3.6 3.5 4.7 GREEN FULL CAM. 5500 12/26/88 10 2.4 3.4 3.5 LST FULL CAM. 4000 1/05/87 24 7.0 10.2 GREEN FULL CAM. 4000 12/30/86 14 2.3 2.8 3.2 FULL CAM. 4000 1/05/87 40 14.9 7.1 MISSION CREEK CAM. 5500 12/26/88 10 2.4 3.4 3.5 SAMON ROSA FILLON 3800 12/30/86 13 2.8 3.7 4.5 SAMON ROSA FILLON 3800 12/30/86 30 10.5 3.1 7.0 SAMON ROSA FILLON 3800 12/28/84 30 10.5 3.1 7.0 SILVER STAR MIN FOR A 4000 12/28/84 30 10.5 3.1 7.0 SILVER STAR MIN FOR A 4000 12/28/84 8 1.4 3.5 3.5 SILVER STAR MIN FOR A 4000 12/28/84 8 1.4 3.5 SILVER STAR MIN FOR A 4000 12/28/84			12/30/84		17.0	11.6	14.8								
ENDERBY CAM. \$200 1/01/87 22 5.7 .9 4.6 MORRE LAKE PILLON 5400 1/01/87 21.18 15.3 GREEN RIVER CAM. \$200 1/2/30/86 67 17.5 17.7 18.6 GREEN RIVER GREEN RIVER CAM. \$400 1/2/30/86 17 3.0 4.4 3.1 CQUGAR MIN. FILLON 3200 1/01/87 7.05 4.7 MARTISTON HILL CAM. \$490 1/2/39/86 17 3.0 4.4 3.1 CQUGAR MIN. FILLON 3200 1/01/87 7.05 4.7 GREEN RIVER CAMES FILLON \$500 1/01/87 19.18 15.4 27.2 LESTER CREEK 3100 1/05/87 30 4.5 7.2 LESTER CREEK 4000 1/05/87 30 4.5 7.2 LESTER CREEK 4000 1/05/87 24 7.0 10.2 MARTISTON CREEK CAM. \$300 1/2/38/86 17 3.8 3.5 4.7 SAMMILL RIVER 4000 1/05/87 24 7.0 10.2 MARTISTON CREEK CAM. \$300 1/2/38/86 14 2.3 2.8 3.9 6.3 SAMMILL RIVER A000 1/05/87 42 11.4 9.5 SAMMILL RIVER SAMMIN SILVER STAR MIN SAMMIN FILLON SAMMIN FILLON CREEK CAM. \$300 1/2/38/86 13 2.8 3.9 6.3 SAMMIN SAMMIN FILLON CREEK CAM. \$400 1/2/38/86 13 2.8 3.9 6.3 SAMMIN SAMMIN FILLON CREEK CAM. \$400 1/2/38/86 13 2.8 3.9 6.3 SAMMIN SAMMIN FILLON CREEK CAM. \$400 1/2/38/86 13 2.8 3.9 6.3 SAMMIN SAMMIN FILLON CREEK CAM. \$400 1/2/38/86 38 10.5 13.2 13.4 SAMMIN						4.2	6.5		FILLOR	4000	1/01/87		22.56	12 2	15.5
GETYBALK RES CAH. 5120 12/30/86 17 3/0 4/4 3/1 HATILTON HILL CAH. 4870 12/279/86 24 4/2 4/7 8/4 HATILTON HILL CAH. 4870 12/279/86 24 4/2 4/7 8/4 HATILTON HILL CAH. 5100 12/20/86 10 2/4 3/4 3/4 8/7 ISINIOS LAKE CAH. 5500 12/20/86 10 2/4 3/4 3/5 LOST BORSE HTM CAN. 6300 12/23/86 14 2/3 2/8 3/5 HCCULLOCH CAN. 4200 12/31/86 14 2/3 2/8 3/2 HTSSTOR CREEK CAN. 5800 12/20/86 29 4/5 9/7 8/4 HTSSTOR CREEK CAN. 5800 12/20/86 13 2/8 3/9 6/3 SALHOH HOMS FILLOW 4500 12/28/86 38 10/5 13/2 13/4 SUMPRELAWORS ECAN. 4200 12/28/86 38 10/5 13/2 13/4 SUMPRELAWORS ECAN. 4400 12/28/86							4.4	HORSE LAKE							22.0
HANTLTON HILL CAN. 4890 12/29/86 24 4/2 4/7 8/4 CKASS HOWLTAIN \$2200 1/03/87 7.05 6.7 HARTES PASS PILLOW 4500 10/187 19/15 15.4 27.2 LESTER CREEK 3100 1/05/87 30 4.5 7.2 LSTHTOK LAKE CAN. 5500 12/28/86 10 2.49 3.4 3.5 LYMR LAKE 4000 1/05/87 30 4.5 7.2 LOST HORSE HTN CAN. 4200 12/31/86 17 3.8 3.5 4.7 SAMBILL RIGGE 4700 1/05/87 24 7.0 10.2 HCCULLOCH CAN. 4200 12/31/86 14 2.3 2.8 3.2 SIAMPEDE PASS FILLOW 3840 1/05/87 42 11.4 9.5 HILLOW 3840 1/05/87 42 11.4 9.5 HILLOW 3840 1/05/87 42 11.4 9.5 SAMBILL RIGGE 4700 1/05/87 42 11.4 9.5 SAMBIL RIGGE 516 HILLOW 3840 1/01/87 21.35 3.7 4.5 SECURIS FASS FILLOW 4500 1/01/87 21.35 3.7 4.5 SECURIS FASS FILLOW 4500 1/01/87 20.05 15.5 SAMBIL RIGGES FASS FILLOW 4500 1/01/87 20.05 15.5 SAMBIL RIGGES FASS FILLOW 4500 1/01/87 19.15 15.4 SAMBIL RIGGES FASS FILLOW 4500 1/01/87 27.15 20.0 SAMBIL RIGGES FASS FILLOW 4500 1/01/87 19.15 15.4 SAMBIL RIGGES FASS FILLOW 4500 1/01/87 27.15 20.0 SAMBIL RIGGES FASS FILLOW 4500 1/01/87 5.95 9.1 11.5 11.5 11.5 SAMBIL RIGGES FASS FASS FILLOW 4500 1/01/87 5.95 9.1 11.5 11.5 SAMBIL RIGGES FASS FASS FASS FASS FASS FASS FASS FA											** - ** **			1015	
HARTS PASS FILLOW 4500 1/01/89 19:15 15:4 27.2 LESTER CREEK 3100 1/05/87 22 3.0 2.7 1SINTOK LAKE CAN. 5500 12/26/86 10 2.4 3.4 3.5 LYNN LAKE 4000 1/05/87 24 7.0 10.2 4.5 7.2 LOST MORSE MIN CAN. 4300 12/31/86 17 3.8 3.5 4.7 SAMILL RIDGE 4000 1/05/87 24 7.0 10.2 4.5 7.2 LYNN LAKE 4000 1/05/87 24 7.0 10.2 4.5 7.2 LYNN LAKE 4000 1/05/87 48 14.9 7.1 HISSION CREEK CAN. 5800 12/30/86 29 4.5 9.7 8.9 1.1 HIN CANP 4100 1/05/87 42 11.4 9.5 SAMIDH RIDGE AVEN 200 1/05/87 42 11.4 9.5 SAMIDH RIDGE AVEN 200 1/01/87 2.39 3.1 7.0 SAMIDH RIDGE AVEN 200 1/05/87 42 11.4 9.5 SAMIDH RIDGE AVEN 200 1/01/87 2.39 3.1 7.0 SAMIDH RIDGE AVEN 200 1/01/87 2.39 3.1 7.0 SAMIDH RIDGE AVEN 200 1/01/87 2.0 13.4 SKYVOMISH RIVER SILVER STAR MIN CAN. 4000 12/26/86 13 3.3 3.7 4.5 STEVENS FASS FILLOW 4070 1/01/87 20.05 15.5 SAMIDH RIDGE AVEN 200 12/26/86 13 3.3 3.7 4.5 STEVENS FASS FILLOW 4070 1/01/87 20.05 15.5 SAMIDH RIDGE AVEN 200 12/26/86 15 3.3 3.7 4.5 STEVENS FASS FILLOW 4070 1/01/87 20.05 15.5 SAMIDH RIDGE AVEN 200 12/26/96 18 1.4 2.5 2.7 STEVENS FASS FILLOW 4070 1/01/87 20.05 15.5 SAMIDH RIDGE AVEN 200 1/01/87 19:16 15.4 27.2 LYNN LAKE FORCE FILLOW 4500 1/01/87 19:16 15.4 27.2 LYNN LAKE EAST AVEN 200 1/01/87 19:16 15.4 27.2 LYNN LAKE EAST AVEN 200 1/01/87 19:16 15.4 27.2 LYNN LAKE EAST AVEN 200 1/01/87 19:16 15.4 27.2 LYNN LAKE EAST AVEN 200 1/01/87 19:16 15.4 27.2 LYNN LAKE EAST AVEN 200 1/01/87 19:16 15.4 27.2 LYNN LAKE EAST AVEN 200 1/01/87 19:16 15.4 27.2 LYNN LAKE EAST AVEN 200 1/01/87 19:16 15.5 11.5 11.5 11.5 11.5 11.5 11.5 11								COUGAR STN.	LILLON	3200	1/01/87		7.09	6.7	11.2
ISINTOK LAKE CAN. 5500 12/26/86 10 2.4 3.4 3.5 LINN LAKE 4000 1/05/87 30 4.5 7.2 LOST HORSE HTN CAN. 4300 12/31/86 14 7 3.8 3.5 4.7 SAMPLL RIGGE 4700 1/05/87 48 14.9 7.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1		14 4570 14 4506						GRASS MOUNTAIN	1 12		1/05/87	12			5.4
LOST MORSE MINE CAN. 4300 12/31/86 17 3.8 3.5 4.7 SAWAILL RIDGE 4700 1/05/87 24 7.0 10.2  ACCULOCH CAN. 4300 12/31/86 14 2.3 2.8 3.5 4.7 SAWAILL RIDGE 4700 1/05/87 48 14.9 7.1  ALTON LORD CREEK CAN. 5800 12/30/86 29 4.5 9.7 8.9 ININ CARP 4100 1/05/87 42 11.4 9.5  SALMON MONS FILLON 4500 1/1/87 2.39 3.1 7.0 SAWAILL RIDGE 4700 1/05/87 42 11.4 9.5  SALMON MONS FILLON 4500 1/1/87 2.39 3.1 7.0 SAWAILL RIDGE 4700 1/05/87 42 11.4 9.5  SUMERFAND RES CAN. 4200 12/28/86 38 10.5 13.2 13.4 SKYKOMISH RIVER  VASEUX CREEK CAN. 4400 12/28/86 8 1.4 2.5 2.7 SIGNOVALHEE RIVER  SALMON MONS FILLON 4000 12/30/86 8 1.4 2.5 2.7 SIEVENS PASS SAMD SD 3700 12/30/86 59 13.8 11.0  REHMON RIVER  HARTS FASS FILLON 4500 1/01/87 2.38 3.1 7.0 SAWAILL RIDGE 4700 1/01/87 20.05 15.5  SALMON MONS FILLON 4500 1/01/87 2.38 3.1 7.0 SAWAILL RIDGE 4700 1/01/87 20.05 15.5  SALMON MONS FILLON 4500 1/01/87 27.1S 20.0 28.3  LYMAN LAKE BASIN  LYMAN LAKE FILLON 5900 1/01/87 27.1S 20.0 28.3  LYMAN LAKE FILLON 5900 1/01/87 24.4S 15.8 20.6  PARK KINGE FILLON 4000 1/01/87 24.4S 15.8 20.6  PARK KINGE FILLON 4000 1/01/87 24.4S 15.8 20.6  RETHON COURSE ELEVATION DATE SHOW MATER LAST AVERAGE													4.5		8.6
HCCULLOCK CAN. 4200 12/31/86 14 2.3 2.8 3.2 STANFED PASS FILLOW 3860 10/07/87 21.15 13.7 HTML CREE FASS FILLOW 3860 10/087 21.15 13.7 HTML CREE FASS FILLOW 3860 10/087 21.15 13.7 HTML CREE FASS FILLOW 4500 12/28/86 38 10.5 13.2 3.7 4.5 STANFED FASS FILLOW 4500 12/28/86 38 10.5 13.2 3.7 4.5 STANFED FASS FILLOW 4500 12/28/86 38 10.5 13.2 3.7 4.5 STANFED FASS FILLOW 4500 12/28/86 38 10.5 13.2 3.7 4.5 STANFED FASS FILLOW 4500 12/28/86 38 10.5 13.2 3.7 4.5 STANFED FASS FILLOW 4500 12/28/86 38 10.5 13.2 3.7 4.5 STANFED FASS FILLOW 4500 12/28/86 38 10.5 13.2 3.7 4.5 STANFED FASS FILLOW 4500 12/28/86 38 10.5 13.2 3.7 4.5 STANFED FASS FILLOW 4500 12/30/86 59 13.8 11.0 HTML FASS FILLOW 4500 12/30/86 59 13.8 11.0 HTML FASS FILLOW 4500 10/187 27.15 20.0 28.3 HARDWARD FASS FILLOW 4500 10/187 27.15 20.0 28.3 HARDWARD 4500 10/187 27.15 20.0 28.3 HARDWARD 4500 10/187 20.0 1														10.2	7.8
HISSION CREEK CAN. 5800 12/30/86 29 6.5 9.7 8.9 HIT KOREAU CAN. 5900 12/28/86 13 2.8 3.7 6.3 SALMON NONE FILLOW 4500 12/28/86 38 10.5 13.2 13.4 SUMMERS SILVER SIAR HIT CAN. 6000 12/28/86 38 10.5 13.2 13.4 SUMMERS CAN. 4000 12/28/86 15 3.3 3.7 4.5 VASEUX CREEK CAN. 4000 12/29/86 15 3.3 3.7 4.5 VASEUX CREEK CAN. 4000 12/29/86 8 1.4 2.5 2.7 HITTE ROCKS HIT CON. 4000 12/29/86 39 9.3 6.9 11.6 SILVER ROCKS HIT CAN. 6000 12/29/86 39 9.3 6.9 11.6 HARTS PASS FILLOW 4500 1/01/87 19.16 15.4 27.2 SALMON NONE FILLOW 4500 1/01/87 27.15 20.0 SALMON NONE FILLOW 4500 1/01/87 27.15 20.0 SALMON NONE FILLOW 5900 1/01/87 27.15 20.0 HARTS PASS FILLOW 4780 1/01/87 11/45 11.5 14.1 PASK CK RIGGE FILLOW 400 1/01/87 24.48 15.8 20.46 RAINY PASS FILLOW 4780 1/01/87 24.48 15.8 20.46 RAINY PASS FILLOW 4780 1/01/87 27.15 20.0 SALMON HORE RIVER  HERROR LAKE FILLOW 4780 1/01/87 27.15 20.0 SALMON HORE FILLOW 4780 1/01/87 27.15 20.0 BERKER RIVER  PASK CK RIGGE FILLOW 4780 1/01/87 27.15 20.0 BERKER RIVER  HERRITI SASSIFILLOW 4270 1/01/87 27.15 20.0 BERKER FILLOW 58812	HCCULLOCH CAN														14.1
## ROBAU CAN. 5900 12/28/86 13 2.8 3.9 6.3 SALMON MONS FILLON 4500 10/187 2.38 3.1 7.0 SILVER STAR HIN CAN. 6000 12/28/86 18 3.3 3.7 4.5 SUMMERIAND RES CAN. 4200 12/28/86 15 3.3 3.7 4.5 SUMMERIAND RES CAN. 4200 12/28/86 18 3.3 3.7 4.5 HATTE ROCKS HIN CAN. 6000 12/29/86 8 1.4 2.5 2.7 HATTE ROCKS HIN CAN. 6000 12/29/86 38 1.4 2.5 2.7 HATTE ROCKS HIN CAN. 6000 12/30/96 33 9.3 6.9 11.6 SEACH ROCKS HIN CAN. 6000 12/30/96 33 9.3 6.9 11.6 SHACH ROCKS HIN CAN. 6000 12/30/96 33 9.3 6.9 11.6 SHACH ROCKS HIN CAN. 6000 10/187 19.18 15.4 27.2 HARTS PASS FILLON 6500 1/01/87 2.38 3.1 7.0 CHELAN LAKE SAIN LYMAN LAKE FILLON 5900 1/01/87 27.15 20.0 HIN ROCK RIDGE FILLON 5900 1/01/87 24.48 11.5 14.1 PARK CK RIDGE FILLON 6500 1/01/87 24.48 15.8 20.6 RITHON RIVER BERNET FILLON 4780 1/01/87 24.48 15.8 20.6 RAINY PASS FILLON 4780 1/01/87 24.48 15.8 20.6 RAINY PASS FILLON 4780 1/01/87 24.48 15.8 20.6 BERNET FILLON 5900 1/01/87 27.15 20.0 28.3 HERRIT TO SHOW AND STALLON 4780 1/01/87 5.98 9.1 11.5 LYMAN LAKE FILLON 5900 1/01/87 5.98 9.1 11.5 LYMAN LAKE FILLON 5900 1/01/87 5.98 9.1 11.5 SECUENS PASS SAND SD 3700 1/01/87 2.715 20.0 28.3 HERRIT TO SHOW HATER LAST AVERAGE  BERNET-RILLOR SECUENCE  BE		i. 5900							LILLUM						23.6
SALDUM NOWS FILLOW 4500 1/01/87 2.38 3.1 7.0 SHOODWALHIE RIVER SILVER STAR WITH CAN. 6000 12/28/86 38 10.5 13.2 13.4 SKYMOHISH RIVER SUMMERLAND RES CAN. 4200 12/28/86 15 3.3 3.7 4.5 STEVENS FASS FILLOW 4070 1/01/87 20.05 15.5 HARTIE ROCKS WITH CAN. 400 12/29/86 8 1.4 2.5 2.7 STEVENS FASS SAND SD 3700 12/30/86 59 13.8 11.0 HARTIE ROCKS WITH CAN. 4000 12/30/86 33 9.3 6.9 11.6 SHADDHAILER FILE WARRIE ROCKS WITH CAN. 4000 12/30/86 33 9.3 6.9 11.6 SHADDHAILER FILE WARRIE ROCKS WITH CAN. 4000 12/30/86 33 9.3 6.9 11.6 SHADDHAILER FILE WARRIE FOR SHAD SAND SAND SD 3700 12/30/86 59 13.8 11.0 HARTIE ROCKS WITH CAN. 4000 12/30/86 39 13.8 11.0 HARTIE ROCKS WITH CAN. 4000 12/30/86 39 13.8 11.0 HARTIE ROCKS WITH CAN. 4000 12/30/86 59 13.8 11.0 HARTIE ROCKS WITH CAN. 4000 12/30/86 30 9.3 4.7 4.5 SHADDHAILER FILE WARRIE FILLOW 4500 1/01/87 21.38 3.1 7.0 HARTIE ROCKS WITH CAN. 4000 1/01/87 21.38 3.1 7.0 HARTIE ROCKS WITH CAN. 4000 1/01/87 21.38 3.1 7.0 HARTIE ROCKS WITH CAN. 4000 1/01/87 21.38 3.1 7.0 HARTIE ROCKS WITH CAN. 4000 1/01/87 21.38 3.1 7.0 HARTIE ROCKS WITH CAN. 4000 1/01/87 21.38 3.1 7.0 HARTIE ROCKS WITH CAN. 4000 1/01/87 21.38 3.1 7.0 HARTIE ROCKS WITH CAN. 4000 1/01/87 20.05 15.5 14.1 5.1 5.1 4.1 5.1 5.1 4.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5				13						4100	1705787	42	11.9	9.5	10.3
SILVEN SIRA NIM CAN. 6000 12/28/86 38 10.5 13.2 13.4 SKYKOHISH RIVER SUHHERLAND RES CAN. 4000 12/28/86 15 3.3 3.7 4.5 SIEVENS FASS FILLDW 4070 1/01/87 20.0S 15.5 WASEUX CREEK CAN. 4600 12/29/86 B 1.4 2.5 2.7 HRITE ROCKS THY CAN. 6000 12/30/86 33 9.3 6.9 11.6 ETHOW RIVER HARTS FASS PILLDW 6500 1/01/87 19.18 15.4 27.2 SALMON HOWS FILLDW 4500 1/01/87 21.8 20.0 28.3 SALMON HOWS FILLOW 5000 1/01/87 27.18 20.0 28.3 LYMAN LAKE BASIN LYMAN LAKE FILLOW 5000 1/01/87 24.48 15.8 20.6 PARK K RIDGE FILLOW 4000 1/01/87 24.48 15.8 20.6 RAINY PASS FILLOW 4780 1/01/87 24.48 15.8 20.6 RAINY PASS FILLOW 4780 1/01/87 14.9S 11.2 23.2 RRINY PASS FILLOW 4780 1/01/87 27.15 20.0 28.3 RETHOR RIVER BERNET-BILLOW 4780 1/01/87 27.15 20.0 28.3 HERRIT FASS FILLOW 4780 1/01/87 5.98 9.1 11.5 LYMAN LAKE FILLOW 5000 1/01/87 27.15 20.0 28.3 HERRIT TAY SALMON ALKE FILLOW 5000 1/01/87 27.15 20.0 28.3 HERRIT TAY SALMON ALKE FILLOW 5000 1/01/87 5.98 9.1 11.5 SIEVENS PASS SAND SD 3700 1/01/87 27.15 20.0 28.3 HERRIT TAY SALMON ALKE FILLOW 4770 1/01/87 27.15 20.0 28.3 HERRIT SALMON ALKE FILLOW 4770 1/01/87 27.15 20.0 28.3 HERRIT SALMON ALKE FILLOW 4770 1/01/87 27.15 20.0 28.3 HERRIT SALMON ALKE FILLOW 4770 1/01/87 27.15 20.0 28.3 SHOW COURSE ELEVATION DATE SHOW HATER LAST AVERAGE  SHOW COURSE ELEVATION DATE SHOW HATER LAST AVERAGE  SHOW COURSE ELEVATION DATE SHOW HATER LAST AVERAGE					2.39										
VASEUX CREEK: CAN. 4600 12/29/96 8 1.4 2.5 2.7 SIEVENS PASS SAND SD 3700 12/30/96 59 13.8 11.0 HRITE ROCKS HTN CAN. 6000 12/30/96 33 9.3 6.9 11.6 SKACIT RIVER HANTS FASS FILLOW 6500 1/01/87 19.18 15.4 27.2 LYMON LANT FILLOW 5900 1/01/87 19.18 15.4 5.4 EVAND LANT FOR FASS SAND SD 3700 12/30/96 59 13.8 11.0 HARTS FASS FILLOW 6500 1/01/87 19.18 15.4 27.2 LYMON LANT FILLOW 5900 1/01/87 27.15 20.0 EARLY FASS FILLOW 6500 1/01/87 19.18 15.4 27.2 LYMON LANT FASS FILLOW 6500 1/01/87 19.18 15.4 27.2 LYMON LANT FASS FILLOW 6500 1/01/87 19.18 15.4 27.2 LYMON LANT FASS FILLOW 6500 1/01/87 19.18 15.4 27.2 LYMON LANT FASS FILLOW 6500 1/01/87 19.18 15.4 27.2 LYMON LANT FASS FILLOW 6500 1/01/87 24.48 15.8 20.6 EARLER RIVER HARTS FASS FILLOW 6500 1/01/87 24.48 15.8 20.6 EARLER RIVER HARTS FASS FILLOW 6500 1/01/87 24.48 15.8 20.6 EARLER RIVER HARTS FASS FILLOW 6500 1/01/87 24.48 15.8 20.6 EARLER RIVER HARTS FASS FILLOW 6500 1/01/87 24.48 15.8 20.6 EARLER RIVER HARTS FASS FILLOW 6500 1/01/87 24.48 15.8 20.6 ERVER-FAIL CREEK BERNET-RILL															
##ITTE ROOMS NTN CAR. 6000 12/30/96 33 9.3 4.9 11.6 SHORT RIVER  ##ITTE ROOMS NTN CAR. 6000 12/30/96 33 9.3 4.9 11.6 SHART RIVER  ##ITTE ROOMS NTN CAR. 6000 1/01/87 19.18 15.4 27.2  ##ITTE ROOMS NTN CAR. 6000 1/01/87 19.18 15.4 27.2  ##ITTE ROOMS PILLON 4500 1/01/87 19.18 15.4 27.2  ##ITTE ROOMS PILLON 4500 1/01/87 19.18 15.4 27.2  ##ITTE ROOMS PILLON 4500 1/01/87 2.38 3.1 7.0  ##ITTE ROOMS PILLON 4500 1/01/87 19.18 15.4 27.2  ##ITTE ROOMS PASS PILLON 4500 1/01/87 19.18 15.4 27.2  ##ITTE ROOMS PASS PILLON 4500 1/01/87 19.18 15.4 27.2  ##ITTE ROOMS PASS PILLON 4500 1/01/87 19.18 15.4 27.2  ##ITTE ROOMS PASS PILLON 4500 1/01/87 19.18 15.4 27.2  ##ITTE ROOMS PASS PILLON 4500 1/01/87 19.18 15.4 27.2  ##ITTE ROOMS PASS PILLON 4500 1/01/87 19.18 15.4 27.2  ##ITTE ROOMS PASS PASS PASS PASS PASS PASS PASS PA								STEVENS FASS	FILLON	4070	1/01/87		20.05	18.65	18.9
HARTS FASS FILLOW 4500 1/01/87 19.18 15.4 27.2 LYMAN LANE FILLOW 5900 1/01/87 19.18 15.4 20.0 RAINY FASS FILLOW 4780 1/01/87 19.18 15.4 20.0 RAINY FASS FILLOW 5900 1/01/87 19.18 15.4 20.0 RAINY FASS FILLOW 5900 1/01/87 27.18 20.0 28.3 RAINY FASS FILLOW 5900 1/01/87 27.18 20.0 28.3 RAINY FASS FILLOW 4780 1/01/87 24.48 15.8 20.6 RAINY FASS FILLOW 4780 1/01/87 14.98 11.2 23.2 RAINY FASS FILLOW 4780 1/01/87 14.98 11.2 23.2 RAINY FASS FILLOW 4780 1/01/87 5.98 9.1 11.5 ERRIFFERALL CREE* 3170 12/30/86 25 4.3 6.4 7.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 7.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 7.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 7.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 7.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 7.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 7.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 7.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 7.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS SAND SD 3700 12/30/86 25 4.3 6.4 9.5 SIEVENS FASS FASS FASS FASS FASS FASS		I. 4000						STEVENS PASS S	GAND SD						19.3
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RINDUK LAKE FILLOW 5600 1/01/87 17.48 11.5 14.1 SHOW COURSE ELEVATION DATE SHOW HATER LAST AVERAGE FILLOW 4000 1/01/87 24.48 15.8 20.6 RAINY PASS FILLOW 4780 1/01/87 14.98 11.2 23.2 DEFTH CONTENT YEAK 19.6 PRINTING REVER BERNETHER. STORE 3170 12/30/86 46 10.4 7.9 11.7 BECHET FASSIZEILOW 1270 1/01/87 5.98 9.1 11.5 LYMAN LAKE FILLOW 5900 1/01/87 27.15 20.0 28.3 HERRITT 2140 12/30/86 25 4.3 6.4 7.5 SIEVENS PASS SAND SD 3700 12/30/86 25 7.3 6.4 7.5 SIEVENS PASS SAND SD 3700 12/30/86 25 9.13 11.5 18.9 SIEVENS PASS SAND SD 3700 12/30/86 25 9.13 8.10 19.3 SHOW COURSE ELEVATION DATE SHOW HATER LAST AVERAGE			1/01/87		27.15	20.0	29.2								
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ENTIAN PASS FILLER 4780 1/03/87 14.9S 11.2 23.2 DEFTH CONTENT YEAR 19.  RENATCHEE RIVER  BERNET HILL CREE: 3170 12/30/86 46 10.4 7.9 11.7  BLENET FASSIZE ILLOW 4270 1/01/87 5.9S 9.1 11.5  LYMAN LAKE FILLOW 5500 1/01/87 27.1S 20.0 28.3  HERRITI 2140 12/30/86 25 4.3 6.4 7.5  SIEVENS PASS FILLOW 4070 1/01/87 20.0S 15.5 18.9  STEVENS PASS SAND SD 3700 12/30/86 59 13.8 11.0 19.3  SHOW COURSE ELEVATION DATE SHOW WATER LAST AVERAGE					24,45			SHOR COURSE	,	FFFAULTON	DATE			LAST	AVERAGE
#EMATCHEE RIVER  BERNET-RILL CREE*  3170 12/30/B6 46 10.4 7.9 11.7  BLENETY FASSIZEILOU 1270 1/01/B7 5.98 9.1 11.5  LYMAN LAKE FILLOW 5900 1/01/B7 27.15 20.0 28.3  MERRITT 2140 12/30/86 25 4.3 6.4 7.5  SIEVENS PASS FILLOW 4070 1/01/B7 20.08 15.5 18.9  STEVENS PASS SAND SD 3700 12/30/86 59 13.8 11.0 19.3  SHOW COURSE ELEVATION DATE SHOW HATER LAST AVERAGE		IP 4780	1/01/87		14.95							DEPTH	CONTENT	YEAR	1941-05
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PETT CONTENT LASI AVERAGE	SHOW COURSE							•							
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## The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

Canada:

Ministry of the Environment, Water

Investigations Branch, Victoria, British Columbia

States:

Washington State Department of Ecology

Washington State Department of Natural Resources

Federal:

Department of the Army Corps of Engineers

U.S. Department of Agriculture

Forest Service

U.S. Department of Commerce NOAA, National Weather Service U.S. Department of the Interior Bonneville Power Administration

Bureau of Reclamation Geological Survey National Park Service Bureau of Indian Affairs

Local:

City of Tacoma City of Seattle Chelan County P.U.D.

Pacific Power and Light Company Puget Sound Power and Light Company

Washington Water Power Company Snohomish County P.U.D.

Colville Confederated Tribes

Private:

Okanogan Irrigation District

Wenatchee Heights Irrigation District Newman Lake Homeowners Association

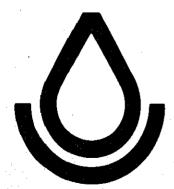
Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ROOM 360, U.S. COURT HOUSE SPOKANE, WASHINGTON 99201

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